

AI
Sub B-17-5
 We claim:

29. A process for the production of a methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-tolerant plant by expressing an exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide in the plant.
30. A process as claimed in claim 29, wherein the exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide is a single-chain antibody fragment.
31. A process as claimed in claim 29, wherein the exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide is a complete antibody or a fragment derived therefrom.
32. An expression cassette for plants, composed of a promoter, a signal peptide, a gene encoding expression of an exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide, an ER retention signal and a terminator.
33. An expression cassette as claimed in claim 32, wherein the constitutive promoter used is the CaMV 35S promoter.
34. An expression cassette as claimed in claim 32, wherein the gene to be expressed is the gene of a single-chain antibody fragment.
35. An expression cassette as claimed in claim 32, wherein the gene or gene fragment of a methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide in the form of a translation fusion with other functional proteins, for example enzymes, toxins, chromophores and binding proteins, is employed as the gene to be expressed.
36. An expression cassette as claimed in claim 32, polypeptide gene to be expressed is obtained from a hybridoma cell or with the aid of other recombinant methods, for example the antibody phage display method.

37. The use of the expression cassette as claimed in claim 32 for the transformation of dicotyledonous or monocotyledonous plants which constitutively express an exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide seed- or leaf-specifically.
38. The use as claimed in claim 37, wherein the expression cassette is transferred into a bacterial strain and the resulting recombinant clones are used for the transformation of the dicotyledonous or monocotyledonous plants which constitutively express an exogenous methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide seed- or leaf-specifically.
39. The use of the expression cassette as claimed in claim 32, as selection marker.
40. The use of a transformed plant as obtained in accordance with claim 38 for the production of a methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide.
41. A process for the transformation of a plant by introducing a gene sequence which encodes a methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide into a plant cell, into callus tissue, an entire plant and protoplasts of plant cells.
42. A process as claimed in claim 41, wherein transformation is effected with the aid of an agrobacterium, in particular of the species *Agrobacterium tumefaciens*.
43. A process as claimed in claim 41, wherein transformation is effected with the aid of electroporation.
44. A process as claimed in claim 41, wherein transformation is effected with the aid of the particle bombardment method.
45. The production of a methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide by expressing a gene which encodes such a polypeptide in a plant or cells of a plant and subsequently isolating the polypeptide.

Sub 15
B2 7

Sub 33 X

0050/47968

46. A plant comprising an expression cassette as claimed in claim 32, wherein the expression cassette imparts tolerance to methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F).
- 5 47. A method of controlling phytopathogenic fungi in transgenic methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-tolerant crop plants, which comprises the use of methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F) against which the crop plant forms methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptides or antibodies.
- 10
48. A methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F)-binding polypeptide or antibody with high binding affinity to methyl methoxyimino- α -(o-tolyloxy)-o-tolylacetate (BAS 490F) which is produced as claimed in claim 45.--
- 15

20

25

30

35

40

45

0050/47968

Add B4